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# NOTICE OF ALLOWANCE AND FEE(S) DUE

32301

7590

10/01/2009

CATALYST LAW GROUP, APC 9710 SCRANTON ROAD, SUITE S-170 SAN DIEGO, CA 92121 EXAMINER
THOMAS, DAVID C
ART UNIT PAPER NUMBER

1637

DATE MAILED: 10/01/2009

APPLICATION NO. FILI		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/526,429	11/02/2005	Johanna M. Rommens	8092-002-US	9669

TITLE OF INVENTION: DIAGNOSIS OF SHWACHMAN-DIAMOND SYNDROME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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CATALYST I 9710 SCRANTO SAN DIEGO, C		Certificate of Mailing of I hereby certify that this Fee(s) Transmittal States Postal Service with sufficient postage addressed to the Mail Stop ISSUE FEE transmitted to the USPTO (571) 273-2885,			s) Transmittal is being ficient postage for firs ISSUE FEE address	or Transmission all is being deposited with the United ge for first class mail in an envelope address above, or being facsimile		
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/526,429 TITLE OF INVENTION	11/02/2005 I: DIAGNOSIS OF SHW	ACHMAN-DIAMOND	Johanna M. Romme SYNDROME	ns			8092-002-US	9669
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0		\$1055	01/04/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
THOMAS, DAVID C 1637			435-006000		1			
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• •	s SMALL ENTITY state	is. See 37 CFR 1.27.					TITY status. See 37 CI	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other the Office.	an th	ie applicant; a regi	stered :	uttorney or agent; or th	e assignee or other party in
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10/526,429	11/02/2005	Johanna M. Rommens	8092-002-US 9669		
32301 75	32301 7590 10/01/2009		EXAMINER		
CATALYST LA	W GROUP, APC	THOMAS, DAVID C			
	ROAD, SUITE S-170		ART UNIT	PAPER NUMBER	
SAN DIEGO, CA	92121		1637		
			DATE MAILED: 10/01/2009		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 286 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 286 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/526,429	ROMMENS ET AL.					
Notice of Allowability	Examiner	Art Unit					
	DAVID O THOMAS	1007					
	DAVID C. THOMAS	1637					
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	application. If not included on will be mailed in due course. <b>THIS</b>					
1. This communication is responsive to <u>04 August 2009</u> .							
2. The allowed claim(s) is/are 1-5,7-11 and 21.							
3. ☐ Acknowledgment is made of a claim for foreign priority unestable a) ☐ All _ b) ☐ Some* c) ☐ None of the:							
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.						
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application No.	·					
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in thi	s national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements					
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers		O-948) attached					
1)  hereto or 2) to Paper No./Mail Date	•	- · · · <b>,</b> · · · · · · · · · ·					
, — , — .		Office action of					
Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No /Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	Patent Application					
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar						
	Paper No./Mail D	Date .					
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amen	dment/Comment					
Paper No./Mail Date  4.	8. 🛛 Examiner's Stater	ment of Reasons for Allowance					
	9. 🔲 Other						
/Kenneth R Horlick/							
Primary Examiner, Art Unit 1637							

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David Kohn on August 11, 2009.

The application has been amended as follows:

In the Claims:

Claim 1, line 2 shall read:

Shwachman-Diamond Syndrome (SDS) or is an SDS carrier comprising....

Claim 1, line 5 shall read:

of a Shwachman-Bodian-Diamond-Syndrome (SBDS) gene mutation associated with SDS selected from the group consisting of....

Application/Control Number: 10/526,429 Page 3

Art Unit: 1637

#### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: In view of the previous amendments, the claimed invention is novel and unobvious over the prior art of Goobie. In particular, no prior art was found that teaches or suggests a method for determining whether a subject is suffering from Shwachman-Diamond Syndrome (SDS) or is an SDS carrier comprising determining the presence of a Shwachman-Bodian-Diamond-Syndrome (SBDS) gene mutation selected from consisting of 183TA>CT, 183TA>CT + 258 + 2T>C and 258 + 2T>C.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany an issue fee. Such admissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David C. Thomas whose telephone number is 571-272-3320 and whose fax number is 571-273-3320. The examiner can normally be reached on 5 days, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Application/Control Number: 10/526,429 Page 4

Art Unit: 1637

published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/David C Thomas/ Examiner, Art Unit 1637

/Kenneth R Horlick/
Primary Examiner, Art Unit 1637